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| **S. NO.** | **QUES/PROBLEM** | **TOPIC** | **SUBMISSION DATE** | **REMARK** |
| 1 | Ques1 | What is java |  |  |
| 2 | Ques2 | what are the features in java |  |  |
| 3 | Ques3 | What are the differences between C, C++ and Java? |  |  |
| 4 | Ques4 | What do you understand by JVM, JRE and JDK? |  |  |
| 5 | Ques5 | What is JIT compiler? |  |  |
| 6 | Ques6 | How java is platform independent? |  |  |
| 7 | Ques7 | How to compile and run java program? |  |  |
| 8 | Prog1 | Write a program to print “Hello World” in java |  |  |
| 9 | Prog2 | Write a program to perform arithmetic operations such as addition, subtraction, multiplication and division of two numbers. |  |  |
| 10 | Prog3 | Write a program to calculate simple interest. |  |  |
| 11 | Prog4 | Write a program to check given number is even number or odd number |  |  |
| 12 | Prog5 | Write a program to check given no is prime number or non-prime number also print all prime numbers between 1 to 100. |  |  |
| 13 | Prog6 | Write a program to calculate factorial of given number. |  |  |
| 14 | Prog7 | Write a program to convert temperature from Fahrenheit to Celsius. |  |  |
| 15 | Prog8 | Write a program to find largest no is 3 numbers. |  |  |
| 16 | Prog9 | Write a program to swap two numbers without using third variable |  |  |
| 17 | Prog10 | Write a program to print pattern: |  |  |
| 18 | Prog11 | Write a program to print first 10 terms of Fibonacci series. |  |  |
| 19 | Prog12 | Write a program to print a table of any given number. |  |  |
| 20 | Prog13 | Write a program to print reverse of a given number. |  |  |

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| 21 | Prog14 | Write a program to convert decimal value to binary value. |  |  |
| 22 | Prog15 | Write a program which accepts days as an integer (eg.700) and display total number of years, months and days in it. |  |  |
| 23 | Prog16 | In a company an employee is paid as under:  a. If his basic salary is less than Rs. 5000, then HRA=20% of basic salary and DA=50% of basic salary.  b. If his salary is either equal to or above Rs. 5000, then HRA = Rs. 2000 and DA=75% of basic salary.  If the employee’s salary given by the user, write a program to find his gross salary. (GS = Basic + HRA + DA) Rs. |  |  |
| 24 | Prog17 | Write a program to calculate electricity bill according to the following charges (Units given by user): a. 0 to 100 units -------------2Rs/Unit  Also add fixed charges of 200Rs  b. 101 to 150 units----------3Rs/Unit  c. 151 and above units-----7Rs/Unit |  |  |
| 25 | Prog18 | Write a program to check given value is available in array or not, also print the position in array. |  |  |
| 26 | Prog19 | Write a program to print largest number in array |  |  |
| 27 | Prog20 | Write a program to print smallest number in array. |  |  |
| 28 | Prog 21 | Write a program to take string input from user in java. |  |  |
| 29 | Prog22 | Write a program to check string is empty in java. |  |  |
| 30 | Prog25 | Write a program to determine length or size of string in java. |  |  |
| 31 | Prog24 | Write a program to prove string is immutable. |  |  |
| 32 | Prog25 | Write a program to replace lower case characters with upper case characters or vice versa. |  |  |
| 33 | Prog26 | Write a program to search a word in a string. |  |  |
| 34 | Prog27 | Write program to concatenate two strings. |  |  |
| 35 | Prog28 | Write a program to justify string and buffer string. |  |  |
| 36 | Prog29 | e a program to demonstrate Thread class and its method. |  |  |
| 37 | Prog30 | Write program to demonstrate Exception class and programs to handle different types of exceptions using try-catch finally block, throws etc. |  |  |
| 38 | Prog31 | Write a program to perform various (read, write etc) operation on file. |  |  |
| 39 | Problem1 | Create a base class called shape. Use this class to store two double type values that could be used to compute the area of figures. Derive two specific classes called triangle and rectangle from the base shape. Add to the base class, a member function get\_data() to initialize base class data members and another member function display\_area() to compute and display the area of figures. Override display\_area() and redefine this function in the derived classes to suit their requirements. |  |  |
| 40 | Problem2 | Assume that a bank maintains two kinds of accounts for customers, one called as savings and the other as current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls below this level a service charge is imposed. Create a class account that stores customer name, account number and type of account. From this derive the classes cur\_acct and sav\_acct to make them more specific to their requirements. Include necessary member functions in order to achieve the following tasks: (a) Accept the deposit from a customer and update the balance. (b) Display the balance. (c) Compute and deposit interest. (d) Permit withdrawal and update the balance. (e) Check for the minimum balance, impose penalty, necessary and update the balance. |  |  |
| 41 | Problem3 | Calculate the percentage of marks obtained in three subjects (each out of 100) by student A and in four subjects (each out of 100) by student B. Create an interface 'Marks' with an abstract method 'getPercentage'. It is implemented by two other classes 'A' and 'B' each having a method with the same name which returns the percentage of the students. The constructor of student A takes the marks in three subjects as its parameters and the marks in four subjects as its parameters for student B. Print the percentage of marks for both the students. |  |  |